

AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims

1. (Currently Amended): A self-correcting sensing element device comprising:
a base configured to be fastened to a doorjamb or other stationary structure;
~~a generally an~~ elongated flexible support member having a base end, a working end, and an axis in the direction of elongation, said base end fastened to said base; and
a sensing element in said working end, wherein said support member is formed of a flexible material whereupon:

in the absence of an applied deforming force, the support member has a first shape,

in response to the application of the deforming force, the support member bends whereupon the working end moves relative to the base end and the support member assumes a second shape different than the first shape; and

in response to the removal of the applied deforming force, the flexible material forming the support member returns said support member to its first shape. ~~said generally elongated flexible support member being susceptible of bending to bend said axis, said generally elongated flexible support member also being capable of returning to its original shape after being deformed.~~

2. (Currently Amended): ~~Sensing~~ The sensing element device of claim 1, wherein said sensing element is oriented ~~at 90° from transverse to said axis of said generally elongated support member.~~

3. (Currently Amended): ~~The sensing~~ Sensing element device of claim 1, wherein said sensing element is oriented parallel with ~~in the same direction as the said axis of said generally elongated flexible support member.~~

4. (Currently Amended): ~~The sensing~~ Sensing element device of claim 1, wherein said ~~flexible~~ support member is made of a material having a durometer Shore hardness A in the range of 40 to 80.

5. (Currently Amended): The sensing ~~Sensing~~-element device of claim 4, wherein said material has a ~~durometer~~ durometer Shore hardness A in the range of 50 to 70.

6. (Currently Amended): The sensing ~~Sensing~~-element device of claim 1, including wires for providing power to said sensing element, said wires being strung through said ~~flexible~~-support member.

7. (Currently Amended): The sensing ~~Sensing~~-element device of claim 1, including wires for connecting said sensing element to a system for detecting the presence of a person or object in a doorway.

8. (Currently Amended): The sensing ~~Sensing~~-element device of claim 7 installed in a doorway.

9. (Currently Amended): The sensing ~~Sensing~~-element device of claim 7, wherein said sensing element is oriented 90° from the said ~~said~~ axis of said ~~generally elongated~~ flexible member.

10. (Currently Amended): The sensing ~~Sensing~~-element device of claim 7, wherein said sensing element is a photocell.

11. (Currently Amended): The sensing ~~Sensing~~-element device of claim 7, wherein said sensing element is a microwave transceiver.

12. (Currently Amended): The sensing ~~Sensing~~-element device of claim 7, wherein said sensing element is an ultrasonic device.

13. (Currently Amended): A safety system for an automatic door for opening and closing a path through a doorway, for detecting a person or object in said path in the process of opening or closing said automatic door, comprising:

at least one radiation element positioned to detect presence or motion in or near said doorway; and

an electrical presence detecting system responsive thereto, wherein said at least

one radiation element is mounted on a flexible, ~~generally elongated support having a first end held stationary by a structure adjacent the doorway and a second end that moves from a starting position relative to the first end in response to the application of a bending force to the flexible elongated support, the second end of said flexible, elongated support returning to its starting position upon release of the bending force.~~ ~~said flexible, generally elongated support having an axis in the direction of elongation, said flexible, generally elongated support being capable of flexing under force to bend said axis, said flexible generally elongated support being capable of returning to its original shape to straighten said axis immediately after the release of a bending force.~~

14. (Currently Amended): ~~Safety~~ The safety system of claim 13, wherein at least one of said radiation elements is mounted ~~at 90° from transverse to the direction of elongation of said support.~~

15. (Currently Amended) ~~The safety~~ Safety system of claim 13, wherein at least one of said radiation elements is mounted at the end of one of said flexible elongated supports.

16. (Currently Amended) ~~The safety~~ Safety system of claim 13, wherein said flexible generally elongated support is made of material having a ~~derometer~~ durometer Shore hardness A in the range of 40-80.

17. (Currently Amended): ~~The safety~~ Safety system of claim 13, wherein said flexible generally elongated support is made of material having a durometer ~~derometer~~ Shore hardness A in the range of 50-70.

18. (Currently Amended): ~~The safety~~ Safety system of claim 13, wherein said at least one radiation element is a photocell.

19. (Currently Amended): ~~The safety~~ Safety system of claim 13, wherein said at least one of said radiation elements is a passive radiation element.

20. (Currently Amended): A system for detecting a person or object in the path of an automatic door in the process of opening or closing, said path being a predetermined path

for opening and closing said automatic door, comprising a detecting system for detecting said person or object, said detecting system including at least one radiation transmitter on one side of said door and at least one radiation detector on the other side of said door, wherein each of said transmitter and said detector is mounted on an flexible, generally elongated support, that has a first end affixed to a stationary object adjacent the path of said automatic door, said each flexible generally elongated supports support being made of a flexible material, whereupon:

in response to the application of an applied bending force, the elongated support flexes whereupon the corresponding transmitter or detector moves from a first position to a second position; and

in response to removal of the bending force, the material forming the elongated support returns the corresponding transmitter or detector to its first position. capable of flexing under a bending force to bend said axis and also being capable of returning to their original shape immediately after the release of said bending force.